

AP Biology I Semester 2

Course Description

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes — energy and communication, genetics, information transfer, ecology, and interactions.

Prerequisites

Biology I and Chemistry I

Course Materials

Required

- Microsoft Office or Google Docs (See the Minimum Technical Skills and Special Technology Utilized by Students)
- Reliable Internet Access
- Laptop or Desktop (Tablets need Puffin app for internet browsing)
- “Biology” by Campbell and Reece 10th ed. 2013 Publisher: Pearson; ISBN 9780321775658 and ISBN 0321775651 (Can be purchased on [Amazon](#))

Recommended

Biology Student Study Guide by Jane B. Reece, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, Robert B. Jackson, Martha R. Taylor, 9th ed. 2011; ISBN: 978-0321629920. (Can be purchased on [Amazon](#) or [Cheapbooks](#))

Course Goals

Upon completion of the course, students will...

- use representations and models to communicate scientific phenomena and solve scientific problems.
- use mathematics appropriately.
- engage in scientific questioning to extend thinking or to guide investigations within the context of the AP course.
- plan and implement data collection strategies in relation to a particular scientific question.
- perform data analysis and evaluation of evidence.
- work with scientific explanations and theories.
- connect and relate knowledge across various scales, concepts, and representations in and across domains.

Units of Instruction

- Unit 5: Heredity
- Unit 6: Gene Expression and Regulation
- Unit 7: Natural Selection



- Unit 8: Ecology

Assignments

The course includes the following assignments:

1. 4 Discussion
2. 23 Dropboxes
3. 11 Quizzes (Includes Unit Test and Final Exam)

Grading / Evaluation

Grading Scheme

Course grades will be determined as follows:

97% or better	A+	77% to 79%	C+
93% to 96%	A	73% to 76%	C
90% to 92%	A -	70% to 72%	C -
87% to 89%	B +	67% to 69%	D+
83% to 86%	B	63% to 66%	D
80% to 82%	B -	60% to 62%	D-
		59% or less	F

Assignment Descriptions and Weightings

The assignments for this course are weighted as follows:

Assignments	Percentage of Final Grade
Course Work (Discussions, Dropboxes and Quizzes)	80%
Final Exam	20%
Total	100%

Instructor Contact Response Time

Contact information for the Indiana Online Instructor can be found by clicking on the Course Home link in the navigation menu.

The instructor will respond to student inquiries (email, text, call) **within 24 hours**. Assignments will be graded within 24 hours and grades will be posted.



Information about Final Exam

The Final Exam must be proctored. Final Exams count for 30% of the total grade. Coursework and the Final Exam will determine the Final Grade.

Expectations for Academic Conduct

Student Handbook

It is your responsibility to read the [student handbook](#) and contact your instructor if you have any questions.

Acceptable Use & Netiquette Policy

The [Acceptable Use Policy](#) outlines the guidelines and behaviors that all users (administrators, teachers, students and parents) are expected to follow when participating in the Indiana Online program.

Academic Integrity

Honesty is the [Indiana Online policy!](#)

CIPA

The [Children's Internet Protection Act](#) (CIPA) is a federal law enacted by Congress to address concerns about access to offensive content over the Internet on school and library computers.

Assistance for Students with Disabilities

Indiana Online supports an inclusive learning environment for all students. If there are aspects of the instruction or design of this course that hinder your full participation, such as inaccessible web content, or the use of non-captioned videos and podcasts, reasonable accommodations can be arranged.

Learn more about the [accessibility features](#) in Indiana Online's Learning Management System (LMS), Desire2Learn.

Suggested Assistive Technologies

- Screen Readers: [VoiceOver](#) and [NVDA](#)
- Chrome Extensions: [ChromeVox](#) and [Speakit!](#)

Minimum Technical Skills and Special Technology Utilized by Students

This course is totally online. All instructional content and interaction takes place over the internet. In addition to baseline word processing skills and sending/receiving email with attachments, students will be expected to search the internet and upload / download files. In addition, students may need one or more of these [technology plug-ins](#) to access course materials and content.

Students should have access to Microsoft Office or have an established Google account to work on course documents.



Technical Questions? Please contact the [Indiana Online Helpdesk](#).